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Technical & Repair guide for **ChungHo Products**

CHUNG HO DEALER *Technical Guide*

call **888.758.1234** for further technical support

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Flushing out the System

1

1-1 IGUASSU ICE

Step by Step Instruction

1 In order to properly install a unit at the customer site, the system will have to be flushed an additional two-three times to ensure customer satisfaction. This can take place either at the dealer location or on site with the customer.

2 After installation, always ensure that the purification process has begun by opening up the Ambient tank lid and observing the functioning water purification.

3 Locate the flush valve by removing the Bottom-front cover from the Iguassu Ice (see below). Attach to the drain a shortened 3/8" hose so that the system may completely flush out. (see left)

1-1 IGUASSU ICE (CONT'D)

Step by Step Instruction

4 **To open up the hot flush, turn the flush valve counter-clockwise. This will begin the flush process from the Iguassu Ice. Ensure there is a proper place to flush the water into.**

5 **Underneath the label "DRAIN", you will find a button that should be in the Off position. Turn this switch On and the entire system will drain out the open flush valve.**

Note: System LEDs on the font panel will continuously ding and blink while the "DRAIN" switch is in the ON position.

6 **Allow the system to drain completely 2~3 times before the unit is left with the customer. This will help to ensure that any odorous tastes left in the system lines, etc. are removed.**

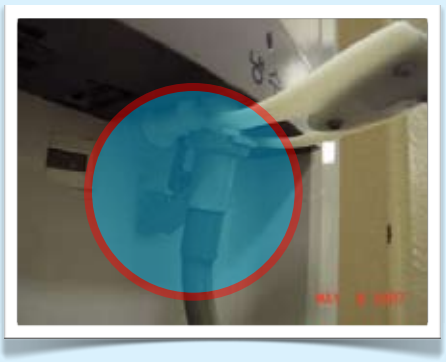
1-2 ALL OTHER UNITS

Step by Step Instruction

1. In order to properly install a unit at the customer site, the system will have to be flushed an additional two-three times to ensure customer satisfaction. This can take place either at the dealer location or on site with the customer.

2. After installation, always ensure that the purification process has begun by opening up the Ambient tank lid and observing the functioning water purification.

3. Locate drain device (as shown below). Lift Cold lever up and immediately attach the device, latching the hook to ensure stability in draining. Repeat with the Hot lever for all units. Ensure there is a proper place to drain the water into.



Y2K-III Only

3. Locate drain device (as shown below). Lift up lever and immediately attach the device, latching the hook to the lever to ensure stability in draining (see below). Ensure there is a proper place to drain the water into.

Check for Leaks / Hose Connections

2

When checking for leaks, please adhere to the following checklist:

1) Booster Pump
2) Under sink connections
3) All tubing running to unit
4) In line (Direct) connections
5) 3/8" drain
6) Filters
7) WLD Sensor

How to Diagnose

1 ***Booster Pump***

Make sure to check the connections to and from the booster pump. They could have loosened in transit.

2 ***Under sink connections***

Tighten all connections with your hands and ensure proper stability. Then check for leaks by turning on the water. Continue to tighten as necessary to control any leaking.

How to Diagnose

3 ***All Tubing Running to Unit***

Ensure that all tubing is connected properly and that there are no leaks as it runs from the water source to the unit. (Note: Check tubing within the mould before closing it up).

Check for Leaks / Loose Connections

How to Diagnose

4 ***In-line (Direct) connections***

Make sure to check the connections to the back of the unit: Inlet, Brine and Drain (if applicable) are securely inserted.

5 ***3/8" Water***

A leak can occur due to the 3/8" drain line water for a few different reasons:

1) Connection from the drip pan is not secured or is not draining properly.

2) Water from the melted Ice is not draining properly

In order to resolve:

- Please install a sump pump (see diagram)

Recommended pump:

- **Little Giant, Part#2P350**

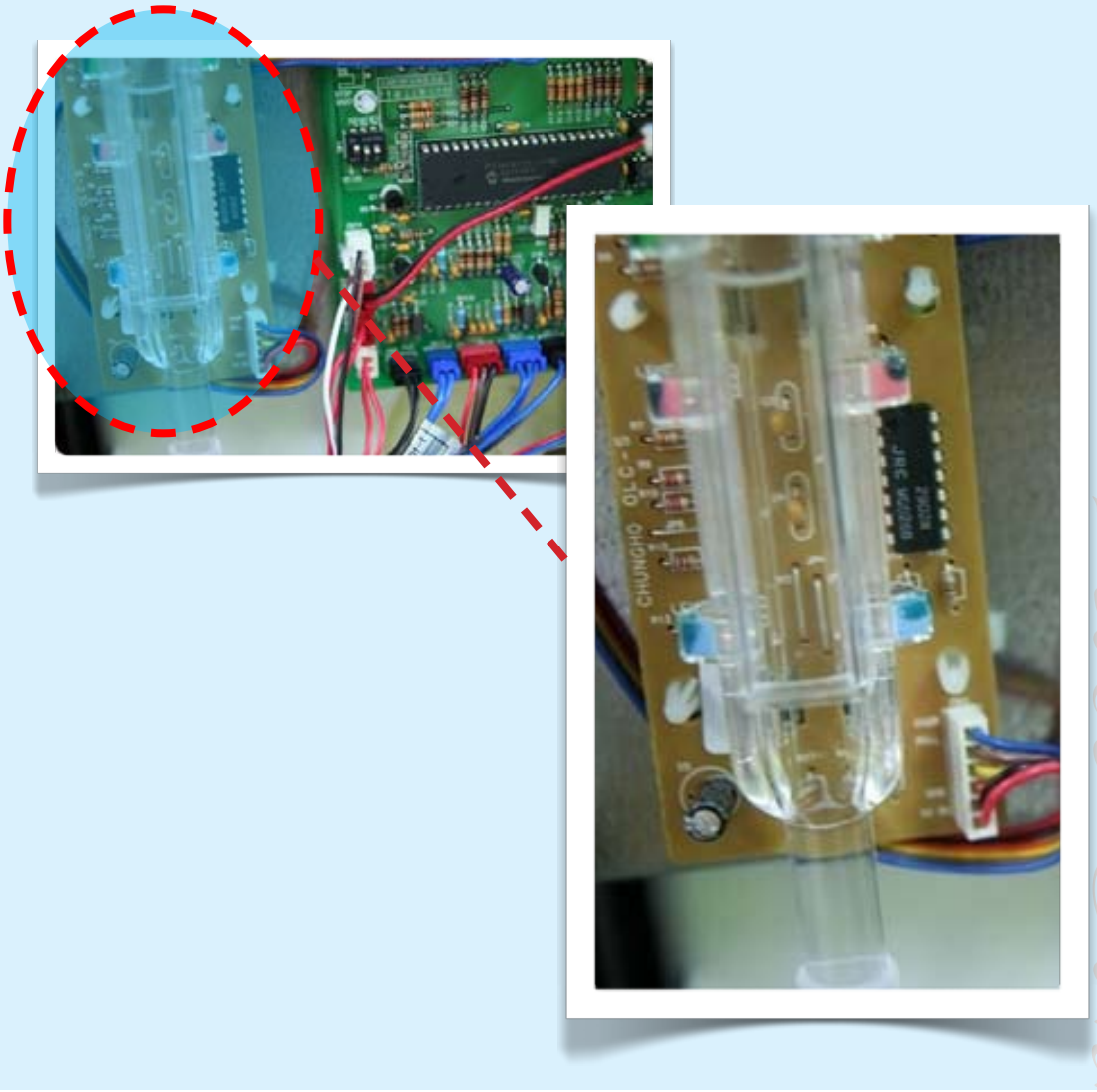
6 ***Tighten Filters***

In transit, the S/H filter type can/may become loose. To prevent from future leaks, tighten the filters before installation with a filter wrench.

How to Diagnose

3 ***Water Level Detector Defective***

If the Ambient tank overflows, then the OLC (Overflow Level Control) has gone defective.



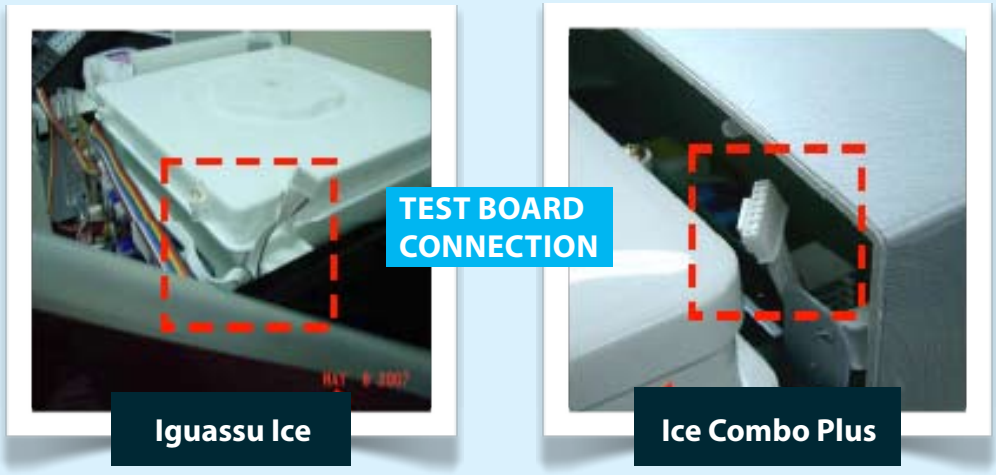
Check for Leaks / Lose Connections

Test Board Connections
Iguassu Ice & Ice Combo Plus

3

Test Board Connection

The test board connectors are located at top of the unit, with the front and top covers removed. (see below)



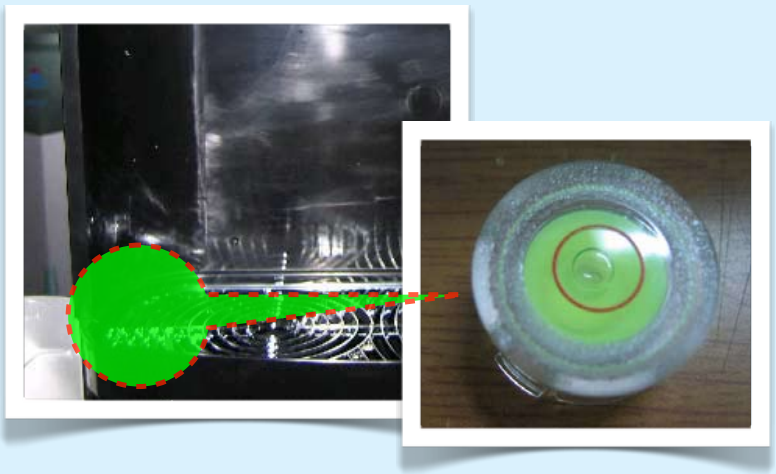
Installation Procedures

4

BASIC POU INSTALLATION

Step by Step Instruction

1 **Install product on a level surface. (Chang product level using the product leg adjustment and confirm the level surface is level.)**
Iguassu Ice: Use level found in drip tray

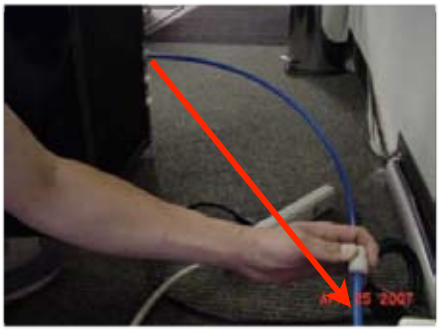


2 **Close off the water supply valve as supplied to each household/business. Then temporarily remove the connector part as provided from your given water source. Then, connect the main water line adaptor.**
If the sealing O-ring at the connection piece is removed or damaged, it can lead to leakage.

3 **Connect tubing hose into water source adaptor and then attach the water inlet on the rear side of the product.**

Step by Step Instruction

4 **Connect tubing hose into the removed water (brine) and drained water connection part of the rear side of product and then connect tubing hose into the drainage hole in sink, bathroom, or multi-purpose room, etc.**
Install the removed water (brine) line and drained water line separately. If drainage does not function properly due to improper installation, then water may flow back toward waterspout and cause an overflow.



Into the Sump Pump from 3/8" Drain Outlet

Out from the Sump Pump via 3/8" hose to drain

5 **Open the angle stop valve supplied into each household, and place the water source adaptor to the open position.**

Step by Step Instruction

6 **Check to see if water is leaking at each connection part.**
(Refer to previous section)

7 **For stabilization of the cooling system and for safe use of this product, insert the power plug into an AC 110V/60Hz, 220/50z, 240V/50Hz, and 220V/60Hz power outlet after 30 minutes after installation of the product.**

8 **Check whether water is supplied into the Ambient tank and whether there is any leakage in or around the tubing connections.**
(Refer to previous section)

9 **Check whether water is coming out by pressing the water dispensing button 1 hour after purification has begun.**

10 **Ensure that the drip pan is draining properly.**
Poor water into the drip pan (see below).

DOs & DON'Ts
What to look for:

5

1 Surrounding Temperatures

When installing systems, avoid locations that expose system to excessive heat, flames, and/or locations affected by humidity, direct sunlight, rain or snow.

2 Water Pressure

Water pressure should read between 50-80 PSI. This is the ideal measurement for proper water purification. Please install a Booster Pump if lower than 50 PSI. Conversely, please apply a PSI reducer when pressure reads greater than 80 PSI.

3 Total Dissolved Solids

Water quality is of utmost importance when dealing with a Reverse Osmosis system. In order to achieve the best possible purification, please check TDS of incoming water sources. Those sources greater than 500-600 TDS may cause a problem..

4 System Transport

Do not tilt the system more than 45 degrees when moving. Excessive tilting may cause cooling malfunction.

5 System Placement

Allow 18 inches of space between system and wall for proper ventilation.

6 Installation

Do not bend tubing when connecting system to water source nor place heavy objects on the tubing. May restrict sufficient water flow and reduce water purification.

7 Installation II

Make sure that all tubing (inlet, brine and drainage) are securely connected to the fitting on the back of the system to prevent water leaks. Water leaked from the system may cause electric shock and/or fire.

Installation Manual for UV Filter Assembly (Model : UV 401)

6

6-1 NECESSARY MATERIALS

1 Transformer

2 UV Filter

3 UV Clip

4 UV Bracket

5 UV Filter Assembly

6 1/4" Tubing

6-2 INSTALLATION PROCEDURE

Step by Step Instruction

1. Halt the water flow and purification process to the Ice Combo before attempting to install the UV Filter. You will have to remove the filter block and assembly, so to avoid complications be sure the main water line attachment is OFF.

2. Remove the front cover to the Ice Combo Plus in order to gain access to the main filter housing area and to reveal the filter block.

3. Remove tubing attached to the main drain line to ease the process of removing the Filter Assembly.

4. Remove the front cover to the Ice Combo Plus in order to gain access to the main filter housing area and to reveal the filter block.

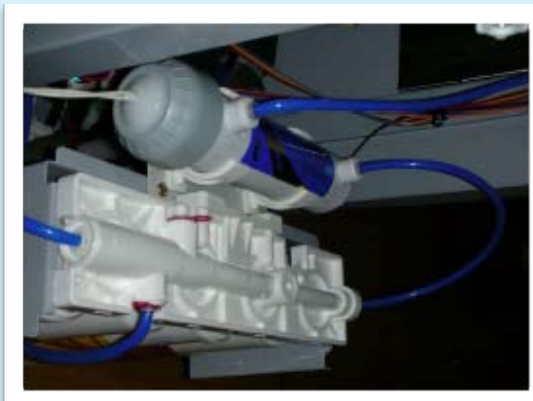
Step by Step Instruction

5 **Place UV Filter assembly between filter bracket and single-head bracket and turn it upward.**

6 **Tighten it down with 12 4* screws (Place screws only on one side if not fitted).**

Step by Step Instruction

7 **Measure out the proper tubing length for connection to the Post Carbon Filter. Connect the UV Filter IN to the Post Carbon OUT with a 1/4" tubing.**



8 **Place Filter assembly back into original position. Link to transformer line.**

Step by Step Instruction

9 **Connect the transformer to with the UV Filter.**

Filter Exchange Guide
S/H Filter Type

7

7-1 NECESSARY MATERIALS

1 Sediment Filter

2 Pre-Carbon Filter

3 Membrane Filter

4 Post-Carbon Filter

5 Filter Wrench

6 Purge Attachment

Filter Exchange S/H Filter Type

7-2 SETUP PROCEDURE

Step by Step Instruction

1. Halt the water flow and purification process to the Ice Combo before attempting to replace filters. To avoid complications, be sure the main water line attachment is in the OFF position.

2. Remove the front cover to the Ice Combo Plus in order to gain access to the main filter housing area and to reveal the filter block.

3. Ensure all tubing and assembly, as related to the filter block, is attached and in working condition. This will help to avoid unwanted accidents following the filter change.

4. Once you have checked the product in detail, proceed with the following steps for proper filter exchange.

7-3 SEDIMENT FILTER

Step by Step Instruction

1 **Loosen Sediment Filter with Filter Wrench.**

2 **Unscrew the filter from the filter block.**

3 **Make sure to always remove the O-ring from any filter. This ring must be passed from filter to filter through all changes to prevent against unwanted leaks and to ensure quality water production.**

4 **Replace the O-ring from the old Sediment Filter and place into the new filter.**

Note: Never use non-ChungHo Nais manufactured filters. It can highly degrade the quality and efficiency of the product.

Step by Step Instruction

5 Once the O-ring is placed back into the filter, simply screw the filter back into the block assembly and securely tighten using the filter wrench.

6 It is important to note that on all filters, the place marker (seen below) must be situated to the right of the name of filter type (i.e. SEDI). You will have to tighten the filters with the filter wrench accordingly.

7-4 PRE-CARBON FILTER

Step by Step Instruction

1 **Loosen Pre-Carbon Filter with Filter Wrench.**

2 **Unscrew the filter from the filter block.**

3 **Make sure to always remove the O-ring from any filter. This ring must be passed from filter to filter through all changes to prevent against unwanted leaks and to ensure quality water production.**

4 **Replace the O-ring from the old Pre-Carbon Filter and place into the new filter.**

Note: Never use non-ChungHo Nais manufactured filters. It can highly degrade the quality and efficiency of the product.

Step by Step Instruction

5 In connecting the Pre-Carbon filter, you will have to first purge the filter, effectively removing excess carbon from the inner casing. Before purging the filter, make sure to tap up and down the filter from all sides. This will allow more loose carbons to be released so that they may be expelled from the system via the purge process.

6 For this step, you will utilize the purge attachment as is mentioned in the necessary parts list.

7 Screw on the attachment until it is tightly secured on the Pre-Carbon filter head.

8 Temporarily remove red clip and blue tubing (see below) to make way for purge.

Step by Step Instruction

9 Replace with additional hose (1-2 ft.) connected from the filter block to the purge attachment.

10 Attach a third hose to the opposite end of the purge attachment.

11 Turn the main water line attachment to the ON position.

12 Allow the Pre-Carbon filter to purge for about 10 minutes. This will effectively rid the filter of unnecessary carbon build-up.

Step by Step Instruction

13 After the purge process is complete, do not shut OFF the water adaptor. Instead, simply turn off the power to product. This will effectively shut down the solenoid valve, and not allow water to pass through the filter block during the exchange process.

14 Remove the purge attachment from the Pre-Carbon filter and ensure the O-ring is still in place.

15 Once the O-ring is placed back into the filter, simply screw the filter back into the block assembly and securely tighten using the filter wrench.

16 Remember that it is important to note that on all filters, the place marker must be situated to the right of the name of filter type (i.e. PRE). You will have to tighten the filters with the filter wrench accordingly.

Step by Step Instruction

17 **Upon completion of Pre-Carbon filter exchange, make sure to replace the original tubing and red clip as seen below.**

7-5 MEMBRANE FILTER

Step by Step Instruction

1 **Remove the red clip and hose attached to the bottom of the Membrane Filter.**

2 **Loosen Membrane Filter with Filter Wrench.**

3 **Unscrew the filter from the filter block.**

4 **Make sure to always remove the O-ring from any filter. This ring must be passed from filter to filter through all changes to prevent against unwanted leaks and to ensure quality water production.**

Filter Exchange Step by Step

Step by Step Instruction

5 **Replace the O-ring from the old Membrane Filter and place into the new filter.**

Note: Never use non-ChungHo Nais manufactured filters. It can highly degrade the quality and efficiency of the product.

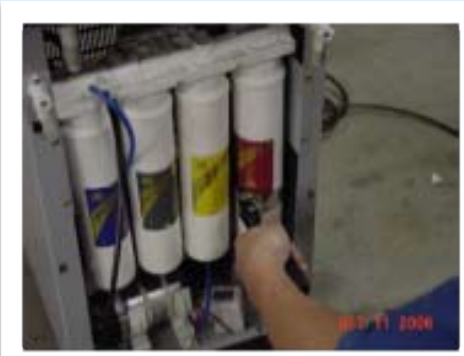
6 **Once the O-ring is placed back into the filter, simply screw the filter back into the block assembly and securely tighten using the filter wrench.**

7 **Remember that it is important to note that on all filters, the place marker must be situated to the right of the name of filter type (i.e. MEM). You will have to tighten the filters with the filter wrench accordingly.**

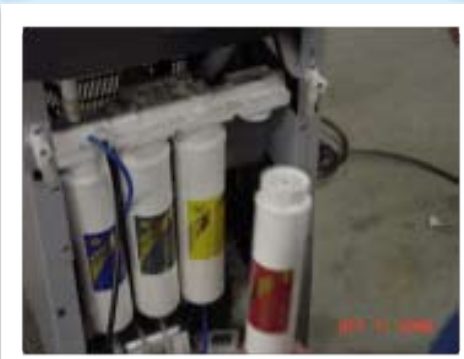
7-6 POST-CARBON FILTER

Step by Step Instruction

1 **Loosen Post-Carbon Filter w/ Filter Wrench.**



2 **Unscrew the filter from the filter block.**



3 **Make sure to always remove the O-ring from any filter. This ring must be passed from filter to filter through all changes to prevent against unwanted leaks and to ensure quality water production.**

4 **Replace the O-ring from the old Post-Carbon Filter and place into the new filter.**

Note: Never use non-ChungHo Nais manufactured filters. It can highly degrade the quality and fficiency of the product.

Step by Step Instruction

5 In connecting the Post-Carbon filter, you will have to first purge the filter, effectively removing excess carbon from the inner casing. Before purging the filter, make sure to tap up and down the filter from all sides. This will allow more loose carbons to be released so that they may be expelled from the system via the purge process.

6 For this step, you will utilize the purge attachment as is mentioned in the necessary parts list.

7 Screw on the attachment until it is tightly secured on the Post-Carbon filter head.

Step by Step Instruction

8 Temporarily remove red clip and blue tubing (see below) to make way for purge.

9 Replace with additional hose (1-2 ft.) connected from the filter block to the purge attachment.

10 Attach a third hose to the opposite end of the purge attachment.

11 Turn the main water line attachment to the ON position.

12 Allow the Post-Carbon filter to purge for about 10 minutes. This will effectively rid the filter of unnecessary carbon build-up.

Step by Step Instruction

13 **After the purge process is complete, do not shut OFF the water adaptor. Instead, simply turn off the power to product. This will effectively shut down the solenoid valve, and not allow water to pass through the filter block during the exchange process.**

14 **Remove the purge attachment from the Post-Carbon filter and ensure the O-ring is still in place.**

15 **Once the O-ring is placed back into the filter, simply screw the filter back into the block assembly and securely tighten using the filter wrench.**

16 **Remember that it is important to note that on all filters, the place marker must be situated to the right of the name of filter type (i.e. POST). You will have to tighten the filters with the filter wrench accordingly.**

Step by Step Instruction

17 **Upon completion of Post-Carbon filter exchange, make sure to replace the original tubing and red clip as seen below.**

ChungHo USA
1240 N. Simon Circle Suite A
Anaheim CA 92806
888.758.1234
www.chunghousa.com
techsupport@chunghousa.com

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